

What is claimed is:

1. A method of writing data with a data processing apparatus comprising:
 - means for storing data;
 - means for writing data in a recording medium; and
 - means for encrypting data on the basis of a password,said method comprising the steps of:
 - storing data of a system area of the recording medium, which are used by said writing means so as to recognize the recording medium, in said storing means;
 - encrypting at least a part of the data of the system area, by said encrypting means, on the basis of the password;
 - storing main data in said storing means;
 - writing the encrypted data of the system area, by said writing means, in the recording medium; and
 - writing the main data, by said writing means, in the recording medium.
2. A method of reading data with a data processing apparatus comprising:
 - means for storing data;
 - means for reading data from a recording medium; and
 - means for decrypting encrypted data on the basis of a password,said method comprising the steps of:
 - accessing said reading means to data of a system area of the recording medium, which are used so as to recognize the recording medium;
 - storing the data of the system area, which have been encrypted, in said storing means; and
 - decrypting the encrypted data of the system area, by said decrypting means, on the basis of the password.

3. A data processing apparatus,
comprising:
means for storing data;
means for writing data in a recording medium;
means for encrypting data on the basis of a password; and
means for controlling said storing means, said writing means and said
encrypting means,

wherein said control means stores data of a system area of the recording
medium, which are used by said writing means so as to recognize the recording
medium, in said storing means,

encrypts at least a part of the data of the system area, by said encrypting
means, on the basis of the password,

stores main data in said storing means,

writes the encrypted data of the system area, by said writing means, in
the recording medium, and

writes the main data, by said writing means, in the recording medium.

4. A data processing apparatus,
comprising:
means for storing data;
means for reading data from a recording medium;
means for decrypting encrypted data on the basis of a password; and
means for controlling said storing means, said reading means and said
decrypting means,

wherein said control means accesses said reading means to data of a
system area of the recording medium, which are used so as to recognize the
recording medium;

stores the data of the system area, which have been encrypted, in said
storing means; and

decrypts the encrypted data of the system area, by said decrypting means, on the basis of the password.

5. The data processing apparatus according to claim 3,
wherein an ancillary password is previously stored in said storing means,
said control means adds the ancillary password to the password, and
said encrypting means encrypts the data of the system area on the basis
of the combined password.

6. The data processing apparatus according to claim 4,
wherein an ancillary password is previously stored in said storing means,
said control means adds the ancillary password to the password, and
said encrypting means encrypts the data of the system area on the basis
of the combined password.

7. The data processing apparatus according to claim 3,
wherein said storing means selectively stores the password or a
combined password which is constituted by the password and an ancillary
password.

8. The data processing apparatus according to claim 4,
wherein said storing means selectively stores the password or a
combined password which is constituted by the password and an ancillary
password.

9. The data processing apparatus according to claim 3,
wherein said storing means previously stores hush function data,
said control means converts the password into a hush value on the basis
of the hush function data, and

said encrypting means encrypts the data of the system area on the basis of the hush value.

10. The data processing apparatus according to claim 4,
wherein said storing means previously stores hush function data,
said control means converts the password into a hush value on the basis of the hush function data, and
said decrypting means decrypts the encrypted data of the system area on the basis of the hush value.

11. A data processing apparatus,
comprising:
means for storing data and hush function data;
means for writing data in a recording medium;
means for encrypting data on the basis of a password or a combined password, which is constituted by the password and an ancillary password, and
means for controlling said storing means, said writing means and said encrypting means,
wherein said control means stores main data in said storing means,
stores data of a system area of the recording medium, which are used so as to recognize the recording medium, in said storing means,
converts the password or a combined password, which is constituted by the password and an ancillary password, into a hush value on the basis of the hush function data,
encrypts at least a part of the data of the system area,
writes the encrypted data of the system area, by said writing means, in the recording medium,
writes the main data, by said writing means, in the recording medium,
and

selects if the storing means stores the hush value or not.

12. A data processing apparatus,

comprising:

means for storing hush function data;

means for reading data from a recording medium;

means for decrypting encrypted data on the basis of a password or a combined password, which is constituted by the password and an ancillary password, and

means for controlling said storing means, said reading means and said decrypting means,

wherein said control means accesses said reading means to encrypted data of a system area of the recording medium, which are used so as to recognize the recording medium,

stores the encrypted data in said storing means,

converts the password or a combined password, which is constituted by the password and an ancillary password, into a hush value on the basis of the hush function data,

decrypts the encrypted data, and

selects if the storing means stores the hush value or not.